AUTHOR INDEX

Abotsi, G.M.K., see Derbyshire, F.J. Aduriz, H.R., see Gigola, C.E. 133

Ai, M.

Selective oxidation of acrolein to acrylic acid by V205-P205 catalysts 167 catalysts

Andersson, L.A.H., see Odenbrand, C.U.I. 363

Andreini, A.

--, Xiaoding, X. and Mol, J.C. Activity of Re₂0₇/Si0₂.Al₂0₃ catalysts for propene metathesis and the influence of alkyltin promotors Angevine, P.J., see Fischer, R.H. Antoshin, G.V., see Bragin, O.V. 219 Beer, V.H.J. de, see Derbyshire, F.J. 117

Berry, F.J.

--, Lin, L., Liang, D., Wang, C., Tang, R. and Zhang, S. An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mõssbauer spectroscopy 195

Bodnariuk, P., see Gigola, C.E. Bond, G.C.

--, Perez Zurita, J. and Flamerz, S. Structure and reactivity of titania-supported oxides. Part 2: characterisation of various vanadium oxide on titania catalysts by X-ray photoelectron spectroscopy

Bond, G.C.

--, Rajaram, R.R. and Burch, R. Thermal analysis of catalyst precursors. Part 1. Temperature programmed evolution of hydrogen chloride during the reduction of supported ruthenium trichloride 379

Bosch, H., see Lansink Rotgerink, H.G.J. 41

Bragin, O.V.

-, Shpiro, E.S., Preobrazhensky, A.V., Isaev, S.A., Vasina, T.V., Dyusenbina, B.B., Antoshin, G.V. and Minachev, Kh.M. The state of platinum in high-silica zeolites and its catalytic activity in ethane and propane aromatization 219

Brandin, J.G.M., see Odenbrand, C.U.I. 363

325 Brandreth, B.J., see Jackson, S.D.

Burch, R., see Bond, G.C. Cant, N.W., see Maitra, A.M. 9 Czako-Nagy, I., see Visokov, G.P. Da Silva, P.N., see Guenin, M. 313 De Beer, V.H.J., see Derbyshire, F.J. 117

Denise, B.

and Sneeden, R.P.A. Composite catalysts: selectivity towards light hydrocarbons in the transformation of CO/H, on Cu0/Zn0 - mordenite systems Derbyshire, F.J.

--, De Beer, V.H.J., Abotsi, G.M.K., Scaroni, A.W., Solar, J.M. and Skrovanek, D.J. The influence of surface functionality on the activity of carbon-supported catalysts

Duprez, D.

--, Mendez, M. and Little, J. Evaluation of a method for characterizing coked and sulphided Rh/Al₂0₃ catalysts: study of the space and time dependence of sulphur deposition on Rh/Al_O3 in toluene steam reforming Dyusenbina, B.B., see Bragin, O.V. 219 Ernst, S., see Weitkamp, J.

Fernandez, C. --, Grosmangin, J., Szabo, G. and Vedrine, J.C. Catalytic properties of modified 335 offretites

Figoli, N.S., see Sedran, U.A.

Fischer, R.H. and Angevine, P.J. Dependence of resid processing selectivity on catalyst pore size distribution 275

Flamerz, S., see Bond, G.C. Frety, R., see Guenin, M. 313 Gengembre, L., see Leclerq, G. 299 Gigola, C.E.

--, Aduriz, H.R. and Bodnariuk, P. Particle size effect in the hydrogenation of acetylene under industrial conditions 133

Gormley, R.J., see Shamsi, A. Grosmangin, J., see Fernandez, C. Guenin, M.

--, Da Silva, P.N. and Frety, R. Influence of chlorine towards metal-support and metal-sulphur support interactions

Hamada, H. Hydrogenolysis of n-butane on silica-supported Ru-Ir bimetallic catalysts 265

Imamura, H.

--, Kato, Y., Yamada, K. and Tsuchiya, S. Preparation and properties of Raney catalysts from rare earth intermetallic compounds 243 Isaev, S.A., see Bragin, O.V. 219

Jackson, S.D.

--, Brandreth, B.J. and Winstanley, D. Carbon monoxide hydrogenation over group VIII metals supported on tungsten and molybdenum trioxides 325

Jirátová, K.

-- and Kraus, M. Effect of support properties on the catalytic activity of HDS catalysts

Kato, Y., see Imamura, H. 243

Kijowski, J.

--, Webb, G. and Winfield, J.M. Radiotracers in fluorine chemistry. Part X. Catalysis by fluorinated surfaces. The interaction of hydrogen fluoride or hydrogen [2 F]-fluoride with chromia catalysts 181

Kraan, A.M. van der, see Van der Kraan, A.M. 285

Kraus, M., see Jirátová, K. 21 Kumar, R., see Weitkamp, J. 207 Kummerow, I.

--, Trimm, D.L. and Wainwright, M.S. An investigation of copper based catalysts for the selective hydrogenation of acetylenes in an industrial butadiene feedstock 161 Lansink Rotgerink, H.G.J.

--, Bosch, H., Van Ommen J.G. and Ross,

J.R.H.
The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high nickel contents 41

Leclerq, G.

--, Pietrzyk, S., Gengembre, L. and Leclerq, L. Bimetallic Ni-Rh catalysts. I. Surface composition and chemisorption properties 299 299 Leclerq, L., see Leclerq, G. Liang, DL., see Berry, F.J. 195 195 Lin, L., see Berry, F.J. Little, J., see Duprez, D. 145 Lundin, S.T., see Odenbrand, C.U.I. 363

Maitra, A.M.

--, Cant, N.W. and Trimm, D.L.
The preparation of tungsten based

catalysts by impregnation of alumina pellets 9

Mandersloot, W.G.B.

-, Nicolaides, C.P. and Scurrell, M.S. Comments on the effect of the acidic strength of silica-alumina in the conversion of methanol to hydrocarbons 393

McCabe, R.W.

-- and Mitchell, P.J.
Exhaust-catalyst development for methanol-fueled vehicles:
1. Comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Mendez, M., see Duprez, D. 145
Minachev, Kh.M., see Bragin, O.V. 219
Mitchell, P.J., see McCabe, R.W. 83
Mol, J.C., see Andreini, A. 31
Muramatsu, A., see Tatsumi, T. 69
Naasz, B.M., see Youchang, X. 233
Nicolaides, C.P., see Mandersloot,
W.G.B. 393

Niemantsverdriet, J.W., see Van der Kraan, A.M. 285 Nonnekens, R.C.H., see Van der Kraan,

A.M. 285 Obermyer, R.T., see Shamsi, A. 55 Odenbrand, C.U.I.

--, Andersson, L.A.H., Brandin, J.G.M. and Lundin, S.T. Catalytic reduction of nitrogen oxides. 2. The reduction of NO₂

363 Ommen, J.G. van, see Lansink Rotgerink, H.G.J. 41 Peev, T.M., see Visokov, G.P. 257

Perez Zurita, J., see Bond, G.C. 353 Pietrzyk, S., see Leclerq, G. 299 Preobrazhensky, A.V., see Bragin, O.V. 219

Rajaram, R.R., see Bond, G.C. 37 Rao, V.S., see Shamsi, A. 55 Reddy, B.M.

-- and Subrahmanyam, V.S. Oxygen chemisorption and activity studies on alumina- and carbonsupported hydrodesulphurization catalysts 1

Ross, J.R.H., see Lansink Rotgerink, H.G.J. 41

Rotgerink, H.G.J. Lansink, see Lansink Rotgerink, H.G.J. 41 Scaroni, A.W., see Derbyshire, F.J.

117
Schehl, R.R., see Shamsi, A. 55
Scurrell, M.S., see Mandersloot, W.G.B.

393 Sedran, U.A.

-- and Figoli, N.S.

Reply to the comments of Mandersloot et al. on the paper "Relation between acidity and activity during the transformation of methanol into hydrocarbons on amorphous silica-alumina", Appl. Catal., 19 (1985) 317 397

Shamsi, A.

--, Rao, V.S., Gormley, R.J., Obermyer, R.T., Schehl, R.R. and Stencel, J.M. Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Shpiro, E.S., see Bragin, O.V. 219 Silva, P.N. da, see Guenin, M. 313 Skrovanek, D.J., see Derbyshire, F.J.

Sneeden, R.P.A., see Denise, B. 107 Solar, J.M., see Derbyshire, F.J. 117 Somorjai, G.A., see Youchang, X. 233 Stencel, J.M., see Shamsi, A. 55 Stoop, F., see Van der Kraan, A.M. 285 Subrahmanyam, V.S., see Reddy, B.M. 1 Szabo, G., see Fernandez, C. 335 Tang, R., see Berry, F.J. 195 Tatsumi, T.

---, Muramatsu, A. and Tominaga, H. Influence of support and potassium on CO hydrogenation catalyzed by molybdenum 69

Tominaga, H., see Tatsumi, T. 69
Trimm, D.L., see Kummerow, I. 161
Trimm, D.L., see Maitra, A.M. 9
Tsuchiya, S., see Imamura, H. 243
Van der Kraan, A.M.

--, Nonnekens, R.C.H., Stoop, F. and Niemantsverdriet, J.W. Characterization of FeRu/TiO₂ and Fe/TiO₂ catalysts after reduction and Fischer-Tropsch synthesis by Mössbauer spectroscopy 285

Van Ommen, J.G., see Lansink Rotgerink, H.G.J. 41

Vasina, T.V., see Bragin, O.V. 219
Vedrine, J.C., see Fernandez, C. 335
Vértes, A., see Visokov, G.P. 257
Visokov, G.P.

--, Peev, T.M., Czako-Nagy, I. and Vértes, A. Physico-chemical and Mössbauer study of ammonia synthesis catalyst CA-1 regenerated in plasma 257 Wainwright, M.S., see Kummerow, I. 161 Wang, C., see Berry, F.J. 195 Webb, G., see Kijowski, J. 181

Weitkamp, J.

--, Ernst, S. and Kumar, R.

The spaciousness index: a novel test reaction for characterizing the effective pore width of bifunctional zeolite catalysts 207
Winfield, J.M., see Kijowski, J. 181
Winstanley, D., see Jackson, S.D. 325
Xiaoding, X., see Andreini, A. 31
Yamada, K., see Imamura, H. 243

Youchang, X.
--, Naasz, B.M. and Somorjai, G.A.
Alcohol synthesis from CO and Hoover molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Zaidi, S.A.H.

Liquid phase oxidation of p-xylene to p-toluic acid 99 Zhang, S., see Berry, F.J. 195 Zurita, J. Perez, see Bond, G.C. 353

SUBJECT INDEX

Acetylene hydrogenation
Particle size effect in the
hydrogenation of acetylene under
industrial conditions 133

Acetylene hydrogenation
An investigation of copper based
catalysts for the selective
hydrogenation of acetylenes in an
industrial butadiene feedstock 161

Acidity

Comments on the effect of the acidic strength of silica-alumina in the conversion of methanol to hydrocarbons

Acidity
Reply to the comments of Mandersloot
et al. on the paper "Relation between
acidity and activity during the
transformation of methanol into
hydrocarbons on amorphous
silica-alumina", Appl. Catal., 19
(1985) 317 397

Acrolein oxidation
Selective oxidation of acrolein to
acrylic acid by V₂0₅-P₂0₅
catalysts 167

Adsorption
Oxygen chemisorption and activity
studies on alumina- and carbonsupported hydrodesulphurization
catalysts 1

Adsorption
Influence of preparative procedure on
the activity and selectivity of
FeZSM-5 catalysts in syngas conversion
55

Adsorption
Evaluation of a method for characterizing coked and sulphided Rh/Al₂O₃ catalysts: Study of the space and time dependence of sulphur deposition on Rh/Al₂O₃ in toluene steam reforming 145

Adsorption
Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of hydrogen
fluoride or hydrogen [AF]-fluoride
with chromia catalysts 181

Adsorption
Hydrogenolysis of n-butane on
silica-supported Ru-Ir bimetallic
catalysts 265

Adsorption
Bimetallic Ni-Rh catalysts. I. Surface composition and chemisorption properties 299

Ageing
Influence of preparative procedure on
the activity and selectivity of
FeZSM-5 catalysts in syngas conversion
55

Ageing
Evaluation of a method for characterizing coked and sulphided Rh/Al₂O₃ catalysts: Study of the space and time dependence of sulphur deposition on Rh/Al₂O₃ in toluene steam reforming 145

Ageing
An investigation of copper based catalysts for the selective hydrogenation of acetylenes in an industrial butadiene feedstock 161

Ageing
Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorineted surfaces. The interaction of hydrogen fluoride or hydrogen [187]-fluoride with chromia catalysts 181

Ageing
Influence of chlorine towards
metal-support and metal-sulphur
support interactions 313

Ageing
Catalytic properties of modified
offretites 335

Alcohol synthesis
Alcohol synthesis from CO and H₂
over molybdenum sulfide. The effect of
pressure and promotion by potassium
carbonate 233

Ammonia synthesis
Physico-chemical and Mössbauer study
of ammonia synthesis catalyst CA-1
regenerated in plasma 257

Aromatization
The state of platinum in high-silica zeolites and its catalytic activity in ethane and propane aromatization 219

Butane hydrogenolysis Hydrogenolysis of n-butane on silica-supported Ru-Ir bimetallic catalysts 265

Carbon monoxide hydrogenation
The effect of Ni-Al ratio on the
properties of coprecipitated
nickel-alumina catalysts with high
nickel contents 41

Carbon monoxide hydrogenation
Influence of preparative procedure on
the activity and selectivity of
FeZSM-5 catalysts in syngas conversion
55

Carbon monoxide hydrogenation Influence of support and potassium on CO hydrogenation catalyzed by molybdenum 69

Carbon monoxide hydrogenation Composite catalysts: selectivity towards light hydrocarbons in the transformation of CO/H₂ on CuO/ZnO mordenite systems 107

Carbon monoxide hydrogenation
Alcohol synthesis from CO and H₂
over molybdenum sulfide. The effect of
pressure and promotion by potassium
carbonate 233

Carbon monoxide hydrogenation Characterization of FeRu/TiO2 and Fe/TiO2 catalysts after reduction and FiScher-Tropsch synthesis by Mössbauer spectroscopy 285

Carbon monoxide hydrogenation
Carbon monoxide hydrogenation over
group VIII metals supported on
tungsten and molybdenum trioxides 325

Catalyst characterization
Oxygen chemisorption and activity
studies on alumina— and carbon—
supported hydrodesulphurization
catalysts 1

Catalyst characterization
The preparation of tungsten based
catalysts by impregnation of alumina
pellets 9

Catalyst characterization
Influence of preparative procedure on
the activity and selectivity of
FeZSM-5 catalysts in syngas conversion
55

Catalyst characterization
The influence of surface functionality
on the activity of carbon-supported
catalysts 117

Catalyst characterization
Evaluation of a method for
characterizing coked and sulphided
Rh/Al₂0₃ catalysts: Study of the
space and time dependence of sulphur
deposition on Rh/Al₂0₃ in toluene
steam reforming 145

Catalyst characterization
Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of hydrogen
fluoride or hydrogen [10F]-fluoride
with chromia catalysts 181

Catalyst characterization

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Catalyst characterization
The spaciousness index: a novel test
reaction for characterizing the
effective pore width of bifunctional
zeolite catalysts 207

Catalyst characterization
The state of platinum in high-silica
zeolites and its catalytic activity in
ethane and propane aromatization 219

Catalyst characterization Preparation and properties of Raney catalysts from rare earth intermetallic compounds 243

Catalyst characterization
Physico-chemical and Mössbauer study
of ammonia synthesis catalyst CA-1
regenerated in plasma 257

Catalyst characterization
Dependence of resid processing
selectivity on catalyst pore size
distribution 275

Catalyst characterization
Characterization of FeRu/TiO₂ and
Fe/TiO₂ catalysts after reduction
and Fischer-Tropsch synthesis by
Mössbauer spectroscopy 285

Catalyst characterization
Bimetallic Ni-Rh catalysts. I. Surface
composition and chemisorption
properties 299

Catalyst characterization
Structure and reactivity of
titania-supported oxides. Part 2:
characterisation of various vanadium
oxide on titania catalysts by X-ray
photoelectron spectroscopy 353

Catalyst characterization
Thermal analysis of catalyst
precursors. Part 1. Temperature
programmed evolution of hydrogen
chloride during the reduction of
supported ruthenium trichloride 379

Catalyst preparation
Oxygen chemisorption and activity
studies on alumina- and carbonsupported hydrodesulphurization
catalysts 1

Catalyst preparation
The preparation of tungsten based catalysts by impregnation of alumina pellets 9

Catalyst preparation
Activity of Re₂0₇/Si0₂.Al₂0₃
catalysts for propene metathesis and
the influence of alkyltin promotors
31

Catalyst preparation
The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high nickel contents 41

Catalyst preparation

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion

Catalyst preparation

The influence of surface functionality on the activity of carbon-supported catalysts 117

Catalyst preparation

Preparation and properties of Raney catalysts from rare earth intermetallic compounds 243

Catalyst preparation

Thermal analysis of catalyst precursors. Part 1. Temperature programmed evolution of hydrogen chloride during the reduction of supported ruthenium trichloride 379 Chlorine

Influence of chlorine towards metal-support and metal-sulphur support interactions 313

Chromatographic method
Evaluation of a method for
characterizing coked and sulphided
Rh/Al_0_catalysts: Study of the
space and time dependence of sulphur
deposition on Rh/Al_0_3 in toluene
steam reforming 145

hromia

Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of hydrogen
fluoride or hydrogen [10F]-fluoride
with chromia catalysts 181

Cobalt acetate-sodium bromide
Liquid phase oxidation of p-xylene to
p-toluic acid 99

Cobalt-molybdenum/alumina
Oxygen chemisorption and activity
studies on alumina— and carbon—
supported hydrodesulphurization
catalysts 1

Cobalt-molybdenum/alumina
Dependence of resid processing
selectivity on catalyst pore size
distribution 275

Cobalt-molybdenum/carbon
Oxygen chemisorption and activity
studies on alumina- and carbonsupported hydrodesulphurization
catalysts 1

Coke formation
Influence of preparative procedure on
the activity and selectivity of
FeZSM-5 catalysts in syngas conversion

Coke formation

The influence of surface functionality

on the activity of carbon-supported catalysts 117

Copper

An investigation of copper based catalysts for the selective hydrogenation of acetylenes in an industrial butadiene feedstock 161

Copper-chromium/alumina
Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Copper-zinc/mordenite
Composite catalysts: selectivity
towards light hydrocarbons in the
transformation of CO/H₂ on CuO/ZnO mordenite systems 107²

Cyclohexane dehydrogenation
Influence of chlorine towards
metal-support and metal-sulphur
support interactions 313

Cyclohexene hydrogenation
Oxygen chemisorption and activity
studies on alumina- and carbonsupported hydrodesulphurization
catalysts 1

Cyclohexene hydrogenation Effect of support properties on the catalytic activity of HDS catalysts 21

Dehydrogenation Preparation and properties of Raney catalysts from rare earth intermetallic compounds 243

Dehydrogenation Influence of chlorine towards metal-support and metal-sulphur support interactions 313

Effective pore width
The spaciousness index: a novel test
reaction for characterizing the
effective pore width of bifunctional
zeolite catalysts 207

Ethane aromatization
The state of platinum in high-silica
zeolites and its catalytic activity in
ethane and propane aromatization 219

Exhaust catalysts
Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Fischer-Tropsch synthesis
Influence of preparative procedure on
the activity and selectivity of
FeZSM-5 catalysts in syngas conversion
55

Fischer-Tropsch synthesis

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Fischer-Tropsch synthesis

Characterization of FeRu/TiO₂ and Fe/TiO₂ catalysts after reduction and Fischer-Tropsch synthesis by Mössbauer spectroscopy 285

Flow reactor

Selective oxidation of acrolein to acrylic acid by $V_2O_5-P_2O_5$ catalysts 167

Fluorinated chromia

Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of hydrogen
fluoride or hydrogen [187]-fluoride
with chromia catalysts 181

Group VIII metals

Carbon monoxide hydrogenation over group VIII metals supported on tungsten and molybdenum trioxides 325

Hydrodesul phurization

Oxygen chemisorption and activity studies on alumina- and carbonsupported hydrodesulphurization catalysts 1

Hydrodesulphurization

Effect of support properties on the catalytic activity of HDS catalysts 21

Hydrodesulphurization

The influence of surface functionality on the activity of carbon-supported catalysts 117

Hydrogen adsorption

Bimetallic Ni-Rh catalysts. I. Surface composition and chemisorption properties 299

Hydrogenation

Oxygen chemisorption and activity studies on alumina- and carbonsupported hydrodesulphurization catalysts 1

Hydrogenation

Effect of support properties on the catalytic activity of HDS catalysts 21

Hydrogenation

The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high nickel contents 41

Hydrogenation

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion Hydrogenation

Influence of support and potassium on CO hydrogenation catalyzed by molybdenum 69

Hydrogenation

Composite catalysts: selectivity towards light hydrocarbons in the transformation of CO/H₂ on CuO/ZnO - mordenite systems 107²

Hydrogenation

Particle size effect in the hydrogenation of acetylene under industrial conditions 133

Hydrogenation

An investigation of copper based catalysts for the selective hydrogenation of acetylenes in an industrial butadiene feedstock 161

Hydrogenation

Alcohol synthesis from CO and H, over molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Hydrogenation

Preparation and properties of Raney catalysts from rare earth intermetallic compounds 243

Hydrogenation

Carbon monoxide hydrogenation over group VIII metals supported on tungsten and molybdenum trioxides 325

Hydrogenolysis

Hydrogenolysis of n-butane on silica-supported Ru-Ir bimetallic catalysts 265

Hydroprocessing

Dependence of resid processing selectivity on catalyst pore size distribution 275

Impregnation

The preparation of tungsten based catalysts by impregnation of alumina pellets 9

Intermetallic compounds

Preparation and properties of Raney catalysts from rare earth intermetallic compounds 243

Inidium/confum ovide

Iridium/cerium oxide
Influence of chlorine towards
metal-support and metal-sulphur
support interactions 313

Iridium/niobium oxide

Influence of chlorine towards metal-support and metal-sulphur support interactions 313

Iron

Physico-chemical and Mössbauer study of ammonia synthesis catalyst CA-1 regenerated in plasma 257

Iron-ruthenium/alumina

An investigation of metal-support

interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Iron-ruthenium/silica

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Iron-ruthenium/titanium

Characterization of FeRu/TiO₂ and Fe/TiO₂ catalysts after reduction and Fischer-Tropsch synthesis by Mössbauer spectroscopy 285

Iron/alumina

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Iron/silica

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Iron/titania

Characterization of FeRu/TiO₂ and Fe/TiO₂ catalysts after reduction and Fischer-Tropsch synthesis by Mössbauer spectroscopy 285

Iron/zeolite

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Isomerization

Effect of support properties on the catalytic activity of HDS catalysts 21

Kinetics

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Low temperature oxygen chemisorption Oxygen chemisorption and activity studies on alumina- and carbonsupported hydrodesulphurization catalysts 1

Metal-support interaction
Influence of chlorine towards
metal-support and metal-sulphur
support interactions 313

Metathesis

Activity of Re₂0₇/Si0₂.Al₂0₃ catalysts for propene metathesis and the influence of alkyltin promotors 31

Methanation

The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high nickel contents 41

Methanol conversion

Comments on the effect of the acidic strength of silica-alumina in the conversion of methanol to hydrocarbons 393

Methanol conversion

Reply to the comments of Mandersloot et al. on the paper "Relation between acidity and activity during the transformation of methanol into hydrocarbons on amorphous silica-alumina", Appl. Catal., 19 (1985) 317 397

Methanol oxidation

Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Methanol synthesis

Alcohol synthesis from CO and H, over molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Mo1 vbdenum

Influence of support and potassium on CO hydrogenation catalyzed by molybdenum 69

Molybdenum disulphide

Alcohol synthesis from CO and H, over molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Molybdenum trioxide

Carbon monoxide hydrogenation over group VIII metals supported on tungsten and molybdenum trioxides 325

Molybdenum/alumina

Oxygen chemisorption and activity studies on alumina- and carbonsupported hydrodesulphurization catalysts 1

Molybdenum/carbon

Oxygen chemisorption and activity studies on alumina— and carbon supported hydrodesulphurization catalysts 1

Molybdenum/carbon

The influence of surface functionality on the activity of carbon-supported catalysts 117

Mordenites

Composite catalysts: selectivity towards light hydrocarbons in the

transformation of CO/H $_{\rm 2}$ on CuO/ZnO - mordenite systems 107^2

Mössbauer spectroscopy

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Mössbauer spectroscopy Physico-chemical and Mössbauer study of ammonia synthesis catalyst CA-1

regenerated in plasma 257 Mössbauer spectroscopy

Characterization of FeRu/TiO₂ and Fe/TiO₂ catalysts after reduction and Fischer-Tropsch synthesis by Mössbauer spectroscopy 285

Nickel-molybdenum/alumina Effect of support properties on the catalytic activity of HDS catalysts 21

Nickel-rhodium/alumina Bimetallic Ni-Rh catalysts. I. Surface composition and chemisorption properties 299

Nickel/alumina
The effect of Ni-Al ratio on the properties of coprecipitated nickel-alumina catalysts with high

nickel contents 41 Nitrogen dioxide reduction Catalytic reduction of nitrogen oxides. 2. The reduction of NO, 363

Offretites

Catalytic properties of modified offretites 335

Oxidation

Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Oxidation
Liquid phase oxidation of p-xylene to p-toluic acid 99

Oxidation
Selective oxidation of acrolein to acrylic acid by V₂0₅-P₂0₅ catalysts 167

Oxygen adsorption
Oxygen chemisorption and activity
studies on alumina— and carbon—
supported hydrodesulphurization
catalysts 1

Oxygen adsorption Bimetallic Ni-Rh catalysts. I. Surface composition and chemisorption properties 299

Palladium/alumina Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Palladium/alumina

Particle size effect in the hydrogenation of acetylene under industrial conditions 133

Particle size effect
Particle size effect in the
hydrogenation of acetylene under
industrial conditions 133
Platinum

The state of platinum in high-silica zeolites and its catalytic activity in ethane and propane aromatization 219

Platinum/alumina
Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Poisoning
Influence of chl

Influence of chlorine towards metal-support and metal-sulphur support interactions 313

Pore size distribution
Dependence of resid processing
selectivity on catalyst pore size
distribution 275

Potassium carbonate
Alcohol synthesis from CO and H,
over molybdenum sulfide. The effect of
pressure and promotion by potassium

pressure and promotion by potassium carbonate 233
Propane aromatization
The state of platinum in high-silica

zeolites and its catalytic activity in ethane and propane aromatization 219
Propene metathesis

Activity of Re₂0₇/Si0₂.Al₂0₃ catalysts for propene metathesis and the influence of alkyltin promotors 31

Radiotracers
Radiotracers in fluorine chemistry.
Part X. Catalysis by fluorinated
surfaces. The interaction of hydrogen
fluoride or hydrogen [19]-fluoride
with chromia catalysts 181

Raney catalysts
Preparation and properties of Raney
catalysts from rare earth
intermetallic compounds 243

Rare earth intermetallic compounds Preparation and properties of Raney catalysts from rare earth intermetallic compounds 243 Reduction

Catalytic reduction of nitrogen oxides. 2. The reduction of NO₂ 363

Regeneration

Physico-chemical and Mössbauer study of ammonia synthesis catalyst CA-1 regenerated in plasma 257

Regeneration

Influence of chlorine towards metal-support and metal-sulphur support interactions 313

Resid processing

Dependence of resid processing selectivity on catalyst pore size distribution 275

Rhenium/alumina

Activity of Re₂O₇/SiO₂.Al₂O₃ catalysts for propene metathesis and the influence of alkyltin promotors 31

Rhenium/silica-alumina Activity of Re₂O₂/SiO₂.Al₂O₃ catalysts for propene metathesis and the influence of alkyltin promotors

31

Rhodium/alumina

Exhaust-catalyst development for methanol-fueled vehicles: 1. A comparative study of methanol oxidation over alumina-supported catalysts containing group 9, 10, and 11 metals 83

Rhodium/alumina

Evaluation of a method for characterizing coked and sulphided Rh/Al₂O₃ catalysts: Study of the space and time dependence of sulphur deposition on Rh/Al₂O₃ in toluene steam reforming 145

Ruthenium trichloride/alumina
Thermal analysis of catalyst
precursors. Part 1. Temperature
programmed evolution of hydrogen
chloride during the reduction of
supported ruthenium trichloride 379

Ruthenium trichloride/silica
Thermal analysis of catalyst
precursors. Part 1. Temperature
programmed evolution of hydrogen
chloride during the reduction of
supported ruthenium trichloride 379

Ruthenium trichloride/titania
Thermal analysis of catalyst
precursors. Part 1. Temperature
programmed evolution of hydrogen
chloride during the reduction of
supported ruthenium trichloride 379

Ruthenium-iridium/silica Hydrogenolysis of n-butane on silica-supported Ru-Ir bimetallic catalysts 265 Ruthenium/alumina

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Ruthenium/silica

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Selectivity

Effect of support properties on the catalytic activity of HDS catalysts 21

Selectivity

Activity of Re₂O₇/SiO₂.Al₂O₃ catalysts for propene metathesis and the influence of alkyltin promotors 31

Selectivity

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Selectivity

Influence of support and potassium on CO hydrogenation catalyzed by molybdenum 69

Selectivity

Composite catalysts: selectivity towards light hydrocarbons in the transformation of CO/H $_2$ on CuO/ZnO -mordenite systems 107^2

Selectivity

Particle size effect in the hydrogenation of acetylene under industrial conditions 133

Selectivity

An investigation of copper based catalysts for the selective hydrogenation of acetylenes in an industrial butadiene feedstock 161 Selectivity

Selective exidation of acrolein to acrylic acid by $V_2O_5-P_2O_5$

catalysts 167 Selectivity

An investigation of metal-support interactions in some iron, ruthenium and iron-ruthenium catalysts by in situ iron-57 Mössbauer spectroscopy 195

Selectivity

Alcohol synthesis from CO and H, over molybdenum sulfide. The effect of pressure and promotion by potassium carbonate 233

Selectivity

Hydrogenolysis of n-butane on

silica-supported Ru-Ir bimetallic catalysts 265

Selectivity

Dependence of resid processing selectivity on catalyst pore size distribution 275

Selectivity

Characterization of FeRu/TiO, and Fe/TiO, catalysts after reduction and Fischer-Tropsch synthesis by Mössbauer spectroscopy 285

Selectivity

Catalytic properties of modified offretites 335

Selectivity

Catalytic reduction of nitrogen oxides. 2. The reduction of NO₂ 363

Silica-alumina

Comments on the effect of the acidic strength of silica-alumina in the conversion of methanol to hydrocarbons 393

Silica-alumina

Reply to the comments of Mandersloot et al. on the paper "Relation between acidity and activity during the transformation of methanol into hydrocarbons on amorphous silica-alumina", Appl. Catal., 19 (1985) 317 397

Spaciousness index
The spaciousness index: a novel test
reaction for characterizing the
effective pore width of bifunctional
zeolite catalysts 207

Sulphur poisoning
Influence of chlorine towards
metal-support and metal-sulphur

metal-support and metal-sulphus support interactions 313 Support functionalisation

The influence of surface functionality on the activity of carbon-supported catalysts 117

Temperature programmed evolution of hydrogen chloride
Thermal analysis of catalyst precursors. Part 1. Temperature programmed evolution of hydrogen chloride during the reduction of supported ruthenium trichloride 379

Temperature programmed reduction
Thermal analysis of catalyst
precursors. Part 1. Temperature
programmed evolution of hydrogen
chloride during the reduction of
supported ruthenium trichloride 379

Thiophene hydrodesulphurization
Oxygen chemisorption and activity
studies on alumina— and carbon—
supported hydrodesulphurization
catalysts 1

Thiophene hydrodesulphurization Effect of support properties on the catalytic activity of HDS catalysts 21

Thiophene hydrodesulphurization
The influence of surface functionality
on the activity of carbon-supported
catalysts 117

Toluene steam reforming
Evaluation of a method for
characterizing coked and sulphided
Rh/Al₂O₃ catalysts: Study of the
space and time dependence of sulphur
deposition on Rh/Al₂O₃ in toluene
steam reforming 145

Tungsten based catalysts
The preparation of tungsten based
catalysts by impregnation of alumina
pellets 9

Tungsten trioxide

Carbon monoxide hydrogenation over group VIII metals supported on tungsten and molybdenum trioxides 325

Tungsten-cobalt/alumina
The preparation of tungsten based
catalysts by impregnation of alumina
pellets 9

Tungsten-nickel/alumina
The preparation of tungsten based
catalysts by impregnation of alumina
pellets 9

Vanadium pentoxide/phosphorus pentoxide Selective oxidation of acrolein to acrylic acid by V₂0₅-P₂0₅ catalysts 167

Vanadium pentoxide/silica-titania Catalytic reduction of nitrogen oxides. 2. The reduction of NO, 363

Vanadium pentoxide/titania
Structure and reactivity of
titania-supported oxides. Part 2:
characterisation of various vanadium
oxide on titania catalysts by X-ray
photoelectron spectroscopy 353

X-ray photoelectron spectroscopy
Bimetallic Ni-Rh catalysts. I. Surface
composition and chemisorption

properties 299
X-ray photoelectron spectroscopy
Structure and reactivity of
titania-supported oxides. Part 2:
characterisation of various vanadium
oxide on titania catalysts by X-ray
photoelectron spectroscopy 353

Xylene oxidation Liquid phase oxidation of p-xylene to p-toluic acid 99

Zeolites

Influence of preparative procedure on the activity and selectivity of FeZSM-5 catalysts in syngas conversion 55

Zeolites

The spaciousness index: a novel test reaction for characterizing the effective pore width of bifunctional zeolite catalysts 207

Zeolites

The state of platinum in high-silica zeolites and its catalytic activity in ethane and propane aromatization 219 Zeolites

Catalytic properties of modified offretites 335

